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DATE MAILED: 10/09/2003

PPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
08/989,373	1	2/12/1997	ARTURO J. GARCIA	TRD-009-PA 8757		
29673	7590	10/09/2003		EXAMINER		
		ALTER LLP		LEE, PING		
7019 CORPO				ART UNIT PAPER NUMBE		
2.11.10.1,				2644	-	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(a)	
•	Application No.	Applicant(s)	
Office Action Summany	08/989,373	GARCIA ET AL.	
Office Action Summary	Examiner	Art Unit	
The MAIL INC DATE of this community that	Ping Lee	2644	
The MAILING DATE of this communication app Period for Reply	pears on the cover sneet v	ntn the correspondence address -	<b></b>
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl! - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a y within the statutory minimum of th will apply and will expire SIX (6) MC , cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communical BANDONED (35 U.S.C. § 133).	ation.
1) Responsive to communication(s) filed on 10.	<u>luly 2002</u> .		
2a) This action is <b>FINAL</b> . 2b) ⊠ Th	is action is non-final.		
3) Since this application is in condition for allows closed in accordance with the practice under Disposition of Claims			ts is
4)⊠ Claim(s) <u>1-47</u> is/are pending in the application	1.		
4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-6,8,9,12-16,18-27,29,31 and 33-43</u>	is/are rejected.		
7) Claim(s) <u>7,10,11,17,28,30,32 and 44-47</u> is/are	objected to.		
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine			
10) The drawing(s) filed on is/are: a) acception	•		
Applicant may not request that any objection to the		• •	
11) The proposed drawing correction filed on		disapproved by the Examiner.	
If approved, corrected drawings are required in replaced 12) The oath or declaration is objected to by the Ex	•		
Priority under 35 U.S.C. §§ 119 and 120	annici.		
13) Acknowledgment is made of a claim for foreign	a priority under 25 U.S.C.	\$ 110(a) (d) a= (5)	
a) All b) Some * c) None of:	i priority under 35 U.S.C.	9 119(a)-(u) of (f).	
1. Certified copies of the priority document	s have been received		
2. Certified copies of the priority document		Application No.	
Copies of the certified copies of the prior application from the International Bu     See the attached detailed Office action for a list	rity documents have beer reau (PCT Rule 17.2(a)).	n received in this National Stage	
14) Acknowledgment is made of a claim for domesti			-ti\
a) ☐ The translation of the foreign language pro			auon).
15) Acknowledgment is made of a claim for domesti			
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	~·

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#### **DETAILED ACTION**

1. In view of the preliminary amendment filed on 6/20/00, the previous final rejection, Paper #20, has been vacated.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 4, 8, 9, 12-16, 18-27, 29, 31 and 33-43 are rejected under 35 U.S.C. 102(b) as being anticipated by Garcia (US 5,361,306).

Regarding claims 1, 4, 8, 9, 12-16, 18-27, 31 and 33-43, Garcia shows an apparatus for enhancing the quality of an input audio signal comprising an audio source (col. 3, lines 38-39), a passive circuit (54, 109) which distorts the input signal, when transmitted therethrough, into an enhanced audio signal by distorting audible frequency components of the input audio signal such that the audible frequency component increase in amplitude as they increase in frequency from a first intermediate frequency up to a high frequency (col. 4, lines 17-25).

Regarding claim 29, the claimed audio source reads on the signal at the input of the passive circuit 54.

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### Claim Rejections - 35 USC § 103

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4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

5. Claims 2, 3, 5 and 6 rejected under 35 U.S.C. 103(a) as being unpatentable over Garcia.

Regarding claims 2 and 5, Garcia fails to explicitly show the high frequency is in the range of from about 6 kHz to about 30kHz. It was well known in the art that an audio system generally reproduced sound signal from 20 Hz to 20 kHz. Garcia also shows a typical audio system (col. 5, lines 5-6). Thus, it would have been obvious to one of ordinary skill in the art to modify Garcia's system by utilizing the harmonic enhancement method as taught in Garcia for a general audio system with reproduction range from 20 Hz to 20 kHz in order to improve the listening experience.

Regarding claims 3 and 6, Garcia fails to explicitly show the amplitude of the high frequency or the low frequency with respect to the intermediate frequency. It was well known in the art that the winding of the transformer, the gap between the windings and/or material of the core would affect the amplification of the passive circuit. Thus, depending on the criteria determined by the engineer, it would have been obvious to one of ordinary skill in the art to modify Garcia depending on the selected winding, the gap and/or the material of the core of the passive circuit.

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## Response to Arguments

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6. Applicant's arguments filed 8/12/00 have been fully considered but they are not persuasive.

Applicant argued that Garcia shows other active elements; therefore, Garcia fails to show the passive circuit.

The claimed passive circuit reads on elements 54 and 109 of Garcia. This passive circuit comprises only passive elements (see Fig. 3) and it will provide enhanced audio signal. Therefore, Garcia shows the claimed limitation.

## Allowable Subject Matter

- 7. Claims 7, 10, 11, 17, 28, 30, 32 and 45-47 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ping Lee whose telephone number is 703-305-4865. The examiner can normally be reached on Monday and Tuesday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W Isen can be reached on 703-305-4386. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4750.

Ping Lee

Primary Examiner
Art Unit 2644

pwl October 3, 2003